***BOOKSTORE APPLICATION***

***User Registration API***

***Description:***

*•* ***Coding Language*** *: Java (version 11)*

*•* ***Software*** *: Intellij IDEA*

*•* ***Technology*** *: Spring Boot(version 2.7.1)*

*•* ***Dependencies****: Spring web, Spring Devtools, Validation, Lombok, My SQL driver, JPA, JWT, JSM, spring starter test.*

*•* ***Rest API used*** *: POST, GET, PUT, DELETE*

*•* ***Server*** *: Tomcat (version 9.0)*

*•* ***Third party server used*** *: POSTMAN*

*¬*

***Summary****:*

*For Bookstore Application we have to create User Registration APIs, Book APIs, Cart APIs and Order APIs. First in this project user need to register user details (ex. First name, last name, Address, Email Id, password) after registering, user will get the mail to his /her registered email Id. In Book APIs we need to add Books details (ex. Book Name, Author Name, Book description, Book Img, Price and Quantity). In Cart APIs we need to add Cart details (ex. Book Id, user ID and Quantity). In order APIs we need to add order details (ex. Quantity, Address, User ID, Book Id and Price).To create APIs we need to create seven different Layers that are Controller, Dto, Model, Exception, Repository/Dao, Service and Util for User Registration, Book, Cart and order.*

***SECTION A – AUTHENTICATION STEPS***

***GENERAL INFORMATION***

Use HTTP Basic Authentication (http://localhost:8090/userregistration) for all the API calls.

Link for accessing the API:

https://url ( or ) https://ip:8090

The url/ip is same as your dashboard`s url/ip

***A.2 EXAMPLE***

( Get User API ) <https://url>

***A.3 CREDENTIALS***

The API credentials can be found on /settings

Username is “API Token”

Password is “API Key”

**NOTE –** In all the API calls if you want to get the Sub zones details using the top zones API Key and token you can post sub zones Use id.

**SECTION B – ADD USER API**

***CLOUD BASED ACCOUNT***

***GENERAL INFORMATION*** POST Method (registration):

To add a user send a post request to /userregistration /register with the following data:

| ***Key*** | ***Mandatory*** | ***Value*** |
| --- | --- | --- |
| first Name | Yes | String |
| last Name | Yes | String |
| email | Yes | String |
| address | yes | String |
| password | yes | String |

***Sample Output***

{

"message": "User Registered Successfully", "data":

"eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJpZF9rZXkiOjIyfQ.vwWGxlYh8A\_RhQpMBGJ\_HM9QLqS1Tsw62t6EcwB\_1TQ"

}

***Note***: Mail will sent to registered Email Id with token.

**SECTION C – Post user login (login)**

***GENERAL INFORMATION*** POST Method (login):

/userregistration/login

Input:

| ***key*** | ***Mandatory*** | ***Value*** |
| --- | --- | --- |
| email | yes | String(abc123@gmail.com) |
| password | yes | String(Set what you want as password it should not already taken ) |

***Sample Output***

{

"message": "login successful ", "data":

{

"userId": 1,

"firstName": "Vishaka",

"lastName": "Kadam",

"email": "vishakakadam19@gmail.com",

"address": "Mumbai",

"password": "vk@567"

}

}

**SECTION D – GET ALL USERS OF AN ACCOUNT API**

***GENERAL INFORMATION*** GET Method:

/userregistration/getAll

Input:

| ***Key*** | ***Mandatory*** | ***Value*** |
| --- | --- | --- |
| No | No | String |
| No | No | String |

***Sample Output***

{

"message": "User retrieved successfully (:",

"data": [

{

"userId": 1,

"firstName": "Vishaka",

"lastName": "Kadam",

"email": vishakakadam19@gmail.com,

"address": "Mumbai",

"password": "vk@567"

},

{

"userId": 2,

"firstName": "Shanvika",

"lastName": "Jog",

"email": shanvi123@gmail.com,

"address": "bangalore",

"password": "560056"

}

]}

**SECTION E – GET USER DETAILS by Token API**

***GENERAL INFORMATION***

GET Method:

/userregistration/getAll/{token}

| ***Argument*** | ***Mandatory*** | ***Value*** |
| --- | --- | --- |
| Token | yes | String |

***Sample Output***

{"message": "User retrieved successfully (:",

"data": {

"userId": 1,

"firstName": "Vishaka",

"lastName": "Kadam",

"email": vishakakadam@gmail.com,

"address": "Mumbai",

"password": "vk@567"

}

}

**SECTION E – GET USER DETAILS by Token API**

***GENERAL INFORMATION***

GET Method :

/userregistration/update/{id}

| ***Argument*** | ***Mandatory*** | ***Value*** |
| --- | --- | --- |
| Id | yes | String |

***Sample input*** /userregistration/update/2

{

"firstName":"Vishaka",

"lastName":"Kadam",

"email":"vishaqka123@gmail.com",

"address":"Mumbai",

"password":"vk@890"

}

Data required to update:

| ***Key(body)*** | ***Mandatory*** | ***Value*** |
| --- | --- | --- |
| First Name | Yes | String |
| Last Name | Yes | String |
| Email | Yes | String |
| Address | Yes | String |
| password | Yes | String |

***Sample Output***

{"message": "User Record updated successfully (:",

"data": {

"userId": 1,

"firstName": "Vishaka",

"lastName": "Kadam",

"email": vishaka123@gmail.com,

"address": "Mumbai",

"password": " vk@890 "

}}

***Book Store API***

***SECTION A***

***GENERAL INFORMATION***

Use HTTP Basic Authentication (http://localhost:8090/book) for all the API calls.

Link for accessing the API:

https://url ( or ) https://ip:8090

The url/ip is same as your dashboard`s url/ip

***A.2 EXAMPLE***

( Get Book API ) <https://url>

**NOTE –** In all the API calls if you want to get the Sub zones details using the top zones API Key and token you can post sub zones Use id.

**SECTION B – ADD Book API**

***GENERAL INFORMATION*** POST Method (Add Books):

To add a user send a post request to / book/insert with the following data:

| ***Key*** | ***Mandatory*** | ***Value*** |
| --- | --- | --- |
| Book Name | Yes | String |
| Author Name | Yes | String |
| Book Description | Yes | String |
| Book image | Yes | String |
| Price | Yes | Integer |
| Quantity | Yes | Integer |

***Sample Output***

{

    "message": "New Book Added in Book Store",

    "data": "eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJpZF9rZXkiOjM4fQ.sdj1yh81OvfTaR1EocYTBctGW0WHvGInzrj2ENtDKsE"

}

***Note***: Mail will sent to registered Email Id with token.

**SECTION C – GET All Books**

***GENERAL INFORMATION*** GET Method:

/book/getAll

***Sample Output***

{

    "message": "User retrieved successfully (:",

    "data": [

        {

            "bookId": 1,

            "bookName": "Rockettt",

            "authorName": "Kritin",

            "bookDescription": "read this",

            "bookImg": "Blue img",

            "price": 100,

            "quantity": 56

        },

        {

            "bookId": 2,

            "bookName": "Lost in space",

            "authorName": "Akshay",

            "bookDescription": "read this",

            "bookImg": "Blue",

            "price": 100,

            "quantity": 56

        }

]

}

**SECTION D – GET Book by Id using Token**

***GENERAL INFORMATION*** GET Method:

/book/getById/{token}

Input:

| ***Parameter*** | ***Mandatory*** | ***Value*** |
| --- | --- | --- |
| Token | Yes | String |

***Sample Output***

{

    "message": "Data retrieved successfully by id (:",

    "data": {

        "bookId": 38,

        "bookName": "Note",

        "authorName": "Pavan",

        "bookDescription": "Please read",

        "bookImg": "Blue color",

        "price": 100,

        "quantity": 15

    }

}

**SECTION E – DELETE Book by Token API**

***GENERAL INFORMATION***

DELETE Method:

/book/delete/{token}

| ***Parameter*** | ***Mandatory*** | ***Value*** |
| --- | --- | --- |
| Token | yes | String |

***Sample Output***

{

    "message": "Book Record deleted successfully",

    "data": "eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJpZF9rZXkiOjM4fQ.sdj1yh81OvfTaR1EocYTBctGW0WHvGInzrj2ENtDKsE"

}

**SECTION E – UPDATE BOOK by Token API**

***GENERAL INFORMATION***

PUT Method:

/book/update/{token}

| ***Parameter*** | ***Mandatory*** | ***Value*** |
| --- | --- | --- |
| token | yes | String |

***Sample input*** /book/update/2

{

     "bookName":"Hello",

    "authorName":"Akshay",

    "bookDescription":"Please read",

    "bookImg":"Blue color",

   "price":100,

    "quantity":15

}

Data required to update:

| ***Key(body)*** | ***Mandatory*** | ***Value*** |
| --- | --- | --- |
| Book Name | Yes | String |
| Author Name | Yes | String |
| Book Description | Yes | String |
| Book Img | Yes | String |
| Price | Yes | Integer |
| Quantity | Yes | Integer |

***Sample Output***

{

    "message": " Book Record updated successfully by Id",

    "data": {

        "bookId": 40,

        "bookName": "Hello",

        "authorName": "Akshay",

        "bookDescription": "Please read",

        "bookImg": "Blue color",

        "price": 100,

        "quantity": 15

    }

}

***Cart API***

***SECTION A***

***GENERAL INFORMATION***

Use HTTP Basic Authentication (http://localhost:8090/cart) for all the API calls.

Link for accessing the API:

https://url ( or ) https://ip:8090

The url/ip is same as your dashboard`s url/ip

***A.2 EXAMPLE***

( Get cart API ) <https://url>

**NOTE –** In all the API calls if you want to get the Sub zones details using the top zones API Key and token you can post sub zones cart id.

**SECTION B – ADD cart API**

***GENERAL INFORMATION*** POST Method (Add Books):

To add a user send a post request to / cart/create with the following data:

| ***Key*** | ***Mandatory*** | ***Value*** |
| --- | --- | --- |
| User Id | Yes | String |
| Book id | Yes | String |
| Quantity | Yes | String |

***Sample Output***

{

    "message": "cart Added successfully !",

    "data": "eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJpZF9rZXkiOjQxfQ.T-yB2H8LsARc0uHDLsoN264gl37eBD5bgN4XfrER4-g"

}

***Note***: Mail will sent to registered Email Id with token.

**SECTION C – GET All CART details by using Token**

***GENERAL INFORMATION*** GET Method:

/cart/getAll/{token}

Input:

| ***Parameter*** | ***Mandatory*** | ***Value*** |
| --- | --- | --- |
| Token | Yes | String |

***Sample Output***

{

    "message": "Get call Success",

    "data": [

        {

            "cartId": 15,

            "user": {

                "userId": 1,

                "firstName": "Vishaka",

                "lastName": "Kadam",

                "email": "vishaka123@gmail.com",

                "address": "Mumbai",

                "password": "vk@890"

            },

            "book": {

                "bookId": 3,

                "bookName": "Lost in space",

                "authorName": "Vishaka",

                "bookDescription": "read this",

                "bookImg": "Blue",

                "price": 100,

                "quantity": 56

            },

            "quantity": 2

        },

        {

            "cartId": 16,

            "user": {

                "userId": 1,

                "firstName": "Vishaka",

                "lastName": "Kadam",

                "email": "vishaka123@gmail.com",

                "address": "Mumbai",

                "password": "vk@890"

            },

            "book": {

                "bookId": 5,

                "bookName": "Fighting Robots",

                "authorName": "Kv Ram",

                "bookDescription": "read this",

                "bookImg": "Robots",

                "price": 100,

                "quantity": 16

            },

            "quantity": 2

        },

        {

            "cartId": 17,

            "user": {

                "userId": 1,

                "firstName": "Vishaka",

                "lastName": "Kadam",

                "email": "vishaka123@gmail.com",

                "address": "Mumbai",

                "password": "vk@123"

            },

            "book": {

                "bookId": 5,

                "bookName": "Fighting Robots",

                "authorName": "Kv Ram",

                "bookDescription": "read this",

                "bookImg": "Robots",

                "price": 100,

                "quantity": 16

            },

            "quantity": 2

        }

]

}

**SECTION D – GET Cart by Id using Token**

***GENERAL INFORMATION*** GET Method:

/cart/getById/{token}

Input:

| ***Parameter*** | ***Mandatory*** | ***Value*** |
| --- | --- | --- |
| Token | Yes | String |

***Sample Output***

{

    "message": "Cart details retrieved successfully",

    "data": {

        "cartId": 41,

        "user": {

            "userId": 1,

            "firstName": ”Vishaka",

            "lastName": "Kadam",

            "email": "vishaka123@gmail.com",

            "address": "Mumbai",

            "password": "vk@890"

        },

        "book": {

            "bookId": 2,

            "bookName": "Rockettt",

            "authorName": "Kritin",

            "bookDescription": "read this",

            "bookImg": "Blue img",

            "price": 100,

            "quantity": 56

        },

        "quantity": 8

    }

}

**SECTION E – DELETE Cart by Token API**

***GENERAL INFORMATION***

DELETE Method:

/cart/delete/{token}

| ***Parameter*** | ***Mandatory*** | ***Value*** |
| --- | --- | --- |
| Token | yes | String(a23hfkshfshfshsjdhkjhsk) |

***Sample Output***

{

    "message": "Cart delete successfully",

    "data": "eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJpZF9rZXkiOjQxfQ.T-yB2H8LsARc0uHDLsoN264gl37eBD5bgN4XfrER4-g"

}

**SECTION E – UPDATE Cart by Token API**

***GENERAL INFORMATION***

PUT Method:

/cart/updateById/{token}

| ***Parameter*** | ***Mandatory*** | ***Value*** |
| --- | --- | --- |
| token | yes | String |

***Sample input*** /cart/updateById/jijjjnsledirhdfjfj

{

    "userId":"1",

   "bookId":"3",

   "quantity":"8"

}

Data required to update:

| ***Key(body)*** | ***Mandatory*** | ***Value*** |
| --- | --- | --- |
| User Id | Yes | String |
| Book Id | Yes | String |
| Quantity | Yes | Integer |

***Sample Output***

{

    "message": " Cart Record updated successfully by Id",

    "data": {

        "cartId": 41,

        "user": {

            "userId": 1,

            "firstName": "Vishaka",

            "lastName": "Kadam",

            "email": "vishaka123@gmail.com",

            "address": "Mumbai",

            "password": "vk@890"

        },

        "book": {

            "bookId": 3,

            "bookName": "Lost in space",

            "authorName": "Akshay",

            "bookDescription": "read this",

            "bookImg": "Blue",

            "price": 100,

            "quantity": 56

        },

        "quantity": 8

    }

}

***Order API***

***SECTION A***

***GENERAL INFORMATION***

Use HTTP Basic Authentication (http://localhost:8090/order) for all the API calls.

Link for accessing the API:

https://url ( or ) https://ip:8090

The url/ip is same as your dashboard`s url/ip

***A.2 EXAMPLE***

(Get cart API) <https://url>

**NOTE –** In all the API calls if you want to get the Sub zones details using the top zones API Key and token you can post sub zones cart id.

**SECTION B – ADD Order API**

***GENERAL INFORMATION*** POST Method (Insert Order):

To add a user send a post request to / order/insert with the following data:

| ***Key*** | ***Mandatory*** | ***Value*** |
| --- | --- | --- |
| Quantity | Yes | Integer |
| Address | Yes | String |
| User Id | Yes | Integer |
| Book Id | Yes | Integer |
| Price | Yes | Integer |

***Sample Output***

*{*

"message": "Order placed successfully !",

"data": "eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJpZF9rZXkiOjIzfQ.qQSel0rDRPPtQdAsPZJOe85Bn2V1LfjLQ2c1toMGUQg"

}

***Note***: Mail will sent to registered Email Id with token.

**SECTION C – GET All Order details by using Token**

***GENERAL INFORMATION*** GET Method:

/order/getAllOrders/{token}

Input:

| ***Parameter*** | ***Mandatory*** | ***Value*** |
| --- | --- | --- |
| Token | Yes | String |

***Sample Output***

{

"message": "All records retrieved successfully !",

"data": [

{

"orderID": 23,

"date": "2022-07-21",

"price": 500,

"quantity": 1,

"address": "Hyadrabad",

"user": {

"userId": 4,

"firstName": "Vishaka",

"lastName": "Kadam",

"email": "vishaka123@gmail.com",

"address": "Mumbai",

"password": "vk@890"

},

"book": {

"bookId": 19,

"bookName": "First",

"authorName": "Sameer",

"bookDescription": "1",

"bookImg": "2",

"price": 500,

"quantity": 0

},

"cancel": true

},

{

"orderID": 24,

"date": "2022-07-21",

"price": 500,

"quantity": 1,

"address": "Hydrabad",

"user": {

"userId": 5,

"firstName": "Sam",

"lastName": "syed",

"email": null,

"address": "HNo:22-313,SSR Nagar,Nandikotkur",

"password": "830967"

},

"book": {

"bookId": 19,

"bookName": "First",

"authorName": "Sameer",

"bookDescription": "1",

"bookImg": "2",

"price": 500,

"quantity": 0

},

"cancel": true

},

{

"orderID": 27,

"date": "2022-07-21",

"price": 600,

"quantity": 1,

"address": "Hydrabad",

"user": {

"userId": 6,

"firstName": "Sam",

"lastName": "syed",

"email": "sam@gmail.com",

"address": "HNo:22-313,SSR Nagar,Nandikotkur",

"password": "830967"

},

"book": {

"bookId": 25,

"bookName": "Second",

"authorName": "Akshay",

"bookDescription": "6",

"bookImg": "5",

"price": 600,

"quantity": 2

},

"cancel": true

}

]

}

**SECTION D – GET Order by Id using Token**

***GENERAL INFORMATION*** GET Method:

/order/getById/{token}

Input:

| ***Parameter*** | ***Mandatory*** | ***Value*** |
| --- | --- | --- |
| Token | Yes | String |

***Sample Output***

{

"message": "Get record by Id retrieved successfully !",

"data": {

"orderID": 23,

"date": "2022-07-21",

"price": 500,

"quantity": 1,

"address": "Hyadrabad",

"user": {

"userId": 4,

"firstName": "Vishaka",

"lastName": "Kadam",

"email": "vishaka123@gmail.com",

"address": "Hyadrabad",

"password": "vk@890"

},

"book": {

"bookId": 19,

"bookName": "First",

"authorName": "Sameer",

"bookDescription": "1",

"bookImg": "2",

"price": 500,

"quantity": 0

},

"cancel": true

}

**SECTION E – Cancel Order by Token API**

***GENERAL INFORMATION***

PUT Method:

/order/cancelOrder/{token}/{userId}

| ***Parameter*** | ***Mandatory*** | ***Value*** |
| --- | --- | --- |
| token | yes | String |
| use Id | Yes | Integer |

***Sample Output*** {

"message": "Cancel order successfully !

"data": {

"orderID": 23,

"date": "2022-07-21",

"price": 500,

"quantity": 1,

"address": "Hyadrabad",

"user": {

"userId": 4,

"firstName": "Vishaka",

"lastName": "Kadam",

"email": "vishaka123@gmail.com",

"address": "Mumbai",

"password": “vk@890"

},

"book": {

"bookId": 19,

"bookName": "First",

"authorName": "Sameer",

"bookDescription": "1",

"bookImg": "2",

"price": 500,

"quantity": 0

},

"cancel": true

}